

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 -53 (Cancelled).

54. (currently amended) A gas detector comprising:

a metal connecting frame having a plurality of conductors extending between first and second ends, the plurality of conductors formed into connector pins on the first end with a first portion of the plurality of conductors on the second end formed into a plurality of pads and a second portion of the plurality of conductors on the second end formed into an array of tabs; and

a housing having a first portion formed of a first type plastic, the first portion, at least in part, surrounds the frame with elongated portions of the frame extending through and encapsulated by portions of the first type of plastic with other portions of the frame accessible to provide contacts exterior to the first portion, and with the encapsulated portion of the frame forming a flame proof seal with the encapsulating first portion with the housing having a second outer plastic portion, the second portion is molded over and encloses the first portion and non-contact portions of the frame, and is formed of a different plastic material with the second outer portion forming a partially enclosed molded plastic sensing region that supports the plurality of pads for a gas sensor with the second portion defining a gas inflow port and with a side of the second portion opposite the partially enclosed molded plastic sensing region supporting the array of tabs as a basis for an external connector and wherein the second portion forms a shroud around the connector pins.

55. (previously presented) A gas detector as in claim 54 where the encapsulated portion of the frame is at least 6 mm long.

56. (previously presented) A gas detector as in claim 54 where the sensing region is closed by a flame arrestor that covers the inflow port.

57. (previously presented) A gas detector as in claim 56 where the flame arrestor comprises a metal mesh.

58. (previously presented) A gas detector as in claim 57 where the metal mesh is, in part, bonded to the second, outer, portion by plastic filling voids in the mesh adjacent thereto.

59. (previously presented) A gas detector as in claim 57 which includes a filter located in the sensing region between the gas sensor and the metal mesh.

60. (previously presented) A gas detector as in claim 54 wherein the second, outer, portion carries an electronic storage unit coupled to at least some of the contacts.